

GBPC25005W THRU GBPC2510W

Glass Passivated Bridge Rectifier

Features

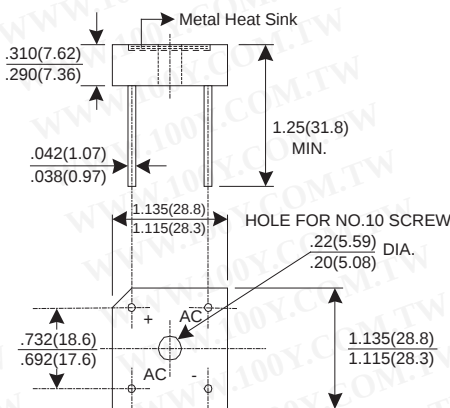
- ★ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ★ High surge current capability
- ★ Ideal for printed circuit boards

Mechanical Data

- ★ Case: Molded plastic body over passivated junctions
- ★ Terminals: Solderable per MIL-STD-202, method 208
- ★ Polarity: As marked on body
- ★ Mounting position: Any
- ★ Weight: 0.63 ounce, 18 grams

Voltage Range 50 to 1000 V
Current 25.0 Ampere

GBPC-W



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	SYMBOL	GBPC 25005W	GBPC 2501W	GBPC 2502W	GBPC 2504W	GBPC 2506W	GBPC 2508W	GBPC 2510W	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current T _c =70°C	I _(AV)	25.0							A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300							A
Maximum Instantaneous Forward Voltage @ 12.5 A	V _F	1.1							V
Maximum DC Reverse Current @T _J =25°C At Rated DC Blocking Voltage @T _J =125°C	I _R	5.0 500							uA uA
Rating for fusing (t < 8.3ms)	I ² t	374							A ² S
Typical junction Capacitance (Note 1)	C _J	130							pF
Typical Thermal Resistance (Note 2)	R _{θJC}	1.3							°C/W
Operating Junctionand Storage Temperature Range	T _J , T _{STG}	-55 to + 150							°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.
(2) Thermal Resistance form junction to case mounted on P.C.B with 0.5 x 0.5"(13x13mm) copper pads.

RATINGS AND CHARACTERISTIC CURVES GBPC25005W THRU GBPC2510W

FIG.1 - FORWARD CURRENT DERATING CURVE

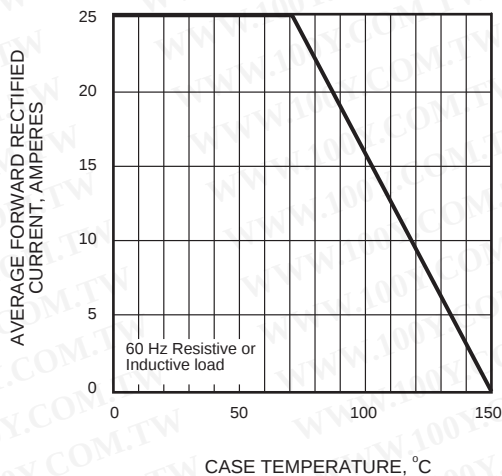


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

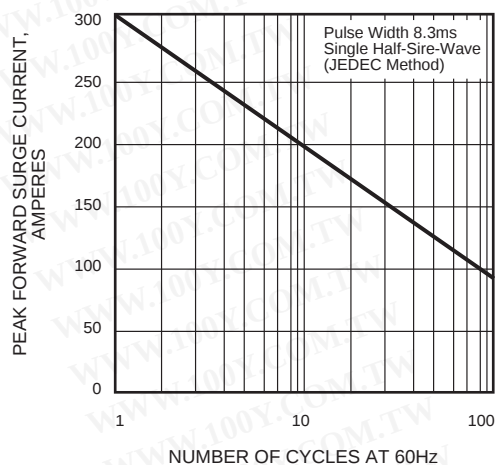


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

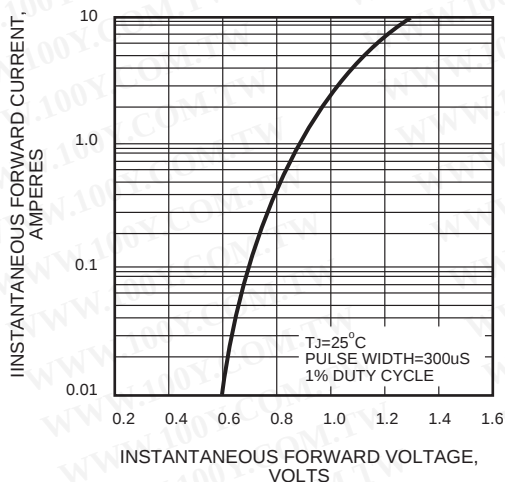


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

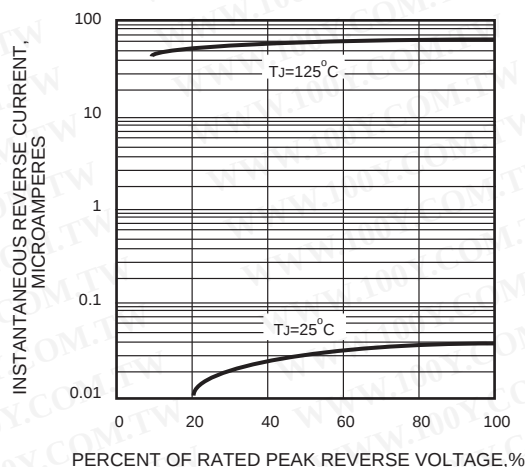
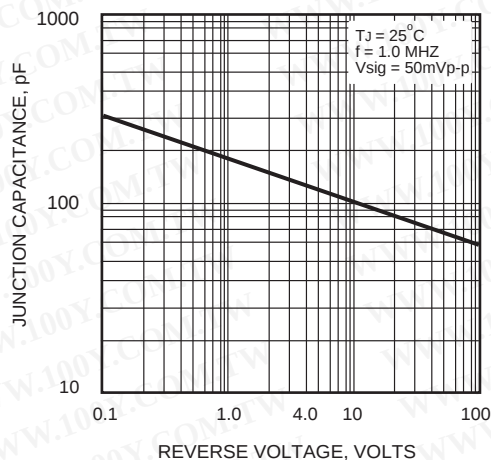


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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